

2018 Current Fiscal Year Report: Hydrogen and Fuel Cell Technical Advisory Committee

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1. Department or Agency

Department of Energy

2. Fiscal Year

2018

3. Committee or Subcommittee

Hydrogen and Fuel Cell Technical Advisory Committee

3b. GSA Committee No.

29148

4. Is this New During Fiscal Year?

No

5. Current Charter

08/24/2018

6. Expected Renewal Date

08/24/2020

7. Expected Term Date

8a. Was Terminated During Fiscal Year?

No

8b. Specific Termination Authority

8c. Actual Term Date

9. Agency Recommendation for Next Fiscal Year

Continue

10a. Legislation Req to Terminate?

No

10b. Legislation Pending?

Not Applicable

11. Establishment Authority

12. Specific Establishment Authority

EPACT 2005 Section 807

13. Effective Date

08/08/2005

14. Committee Type

Continuing

14c. Presidential?

No

15. Description of Committee

16a. Total Number of Reports

1

16b. Report Date

04/04/2018

Report Title

Minutes of the February 13-14 Meeting of the Hydrogen and Fuel Cell Technical Advisory Committee

Number of Committee Reports Listed: 1

17a. Open 1 17b. Closed 0 17c. Partially Closed 0 Other Activities 0 17d. Total 1

Meetings and Dates

Purpose	Start	End
In-person meeting of the HTAC to develop and discuss recommendations to the Secretary on (1) the implementation of programs and activities under the Spark M. Matsunaga Hydrogen Act of 2005; (2) the safety, economical, and environmental consequences of technologies for the production, distribution, delivery, storage, or use of hydrogen energy and fuel cells; and (3) the plan under section 804 of the Spark M. Matsunaga Hydrogen Act of 2005.	02/13/2018	02/14/2018

Number of Committee Meetings Listed: 1

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$3,807.00
18a(3). Personnel Pmts to Federal Staff	\$32,500.00	\$32,500.00

18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$16,036.00	\$32,000.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$2,500.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$130,850.00	\$275,000.00
18d. Total	\$179,386.00	\$345,807.00
19. Federal Staff Support Years (FTE)	0.25	0.25

20a. How does the Committee accomplish its purpose?

HTAC meets up to three times a year to review relevant work from subject matter experts to determine the state of domestic and foreign hydrogen and fuel cell industries, the state-of-the-art, relevant policies, state activities, entrepreneurial activities, competing technologies and market activity. The HTAC publishes an annual report at the end of each calendar year that highlights technical, market and policy developments both domestically and internationally. These reports are disseminated to leadership at DOE and published on the HTAC website, www.hydrogen.energy.gov/advisory_htac.html, for viewing by the public and other interested parties. HTAC also provides recommendations through letters to the Secretary including letters transmitting the annual report, as well as periodic reports on special topics.

20b. How does the Committee balance its membership?

Members are experts in their respective fields or representatives of entities including domestic industry, academia, professional societies, government agencies, Federal laboratories, previous advisory panels, and financial environmental and other appropriate organizations based on the Department's assessment of the technical and other qualifications of the Committee's members and the needs of the Committee.

20c. How frequent and relevant are the Committee Meetings?

The committee meets up to 3 times per year to develop and discuss recommendations to the Secretary on (1) the implementation of programs and activities under the Spark M. Matsunaga Hydrogen Act of 2005; (2) the safety, economical, and environmental consequences of technologies for the production, distribution, delivery, storage, or use of hydrogen energy and fuel cells; and (3) the plan under section 804 of the Spark M. Matsunaga Hydrogen Act of 2005.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

The Hydrogen Technical and Fuel Cell Advisory Committee is established to advise the

Secretary on the programs and activities under title VIII, Hydrogen, of the Energy Policy Act of 2005. Title VIII establishes the Hydrogen and Fuel Cell Program to (1) enable and promote comprehensive development, demonstration, and commercialization of hydrogen and fuel cell technology in partnership with industry; (2) to make critical public investments in building strong links to private industry, institutions of higher education, National Laboratories, and research institutions to expand innovation and industrial growth;(3) to build a mature hydrogen economy that creates fuel diversity in the massive transportation sector of the United States; (4) to sharply decrease the dependency of the United States on imported oil, eliminate most emissions from the transportation sector, and greatly enhance our energy security; and (5) to create, strengthen, and protect a sustainable national energy economy.

20e. Why is it necessary to close and/or partially closed committee meetings?

Not applicable

21. Remarks

EPACT 2005, Section 807.

Designated Federal Officer

Shawna McQueen Designated Federal Officer

Committee Members	Start	End	Occupation	Member Designation
Aszklar, Henry	07/16/2018	07/16/2020	Franklin Park Partners, LLC	Special Government Employee (SGE) Member
Ayers, Kathy	12/01/2017	07/16/2019	Vice President of Research & Development	Representative Member
Azevedo, Ines	11/23/2016	07/16/2018	Carnegie Mellon University	Special Government Employee (SGE) Member
Folkes, Marie	07/16/2018	07/16/2020	President, Industrial Gases, Air Products and Chemicals, Inc	Representative Member
Freese, Charles	12/01/2017	07/16/2019	Executive Director, Global Fuel Cell Activities	Representative Member
Irvin, Nicholas	07/16/2018	07/16/2020	Research and Development Director, Advanced Energy Systems - Southern Company	Representative Member
Koyama, Harol	06/03/2010	07/16/2018	President and CEO of H2 Power Tech	Representative Member
Leggett, Paul	07/17/2014	07/16/2018	Mithril Capital Management LLC	Representative Member
Leo, Anthony	07/16/2018	07/16/2020	Vice President, Applications and Advanced Technology Development, FuelCell Energy	Representative Member
Markowitz, Morry	12/01/2017	07/16/2019	President and Executive Director	Representative Member
Marsh, Andrew	07/16/2018	07/16/2020	President and Chief Executive Officer, Plug Power	Representative Member
Novachek, Frank	07/18/2008	07/16/2018	Xcel Energy; Director, Corporate Planning	Representative Member
Powell, Joseph	11/23/2016	07/16/2018	Shell Global Solutions	Representative Member
Rogers, Paul	07/16/2018	07/16/2020	Director, U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC)	Regular Government Employee (RGE) Member
Scott, Janea	07/17/2014	07/16/2018	California Energy Commission	Special Government Employee (SGE) Member

Number of Committee Members Listed: 16

Narrative Description

The Committee reviews and makes recommendations to the Secretary of Energy on the implementation of programs and activities under Title VIII of EPACT, including (1) federal RD&D efforts in hydrogen and fuel cells and (2) the safety, economical, and environmental consequences of technologies for the production, distribution, delivery, storage, or use of hydrogen energy and fuel cells.

What are the most significant program outcomes associated with this committee?

Checked if Applies

- | | |
|---|-------------------------------------|
| Improvements to health or safety | <input type="checkbox"/> |
| Trust in government | <input type="checkbox"/> |
| Major policy changes | <input checked="" type="checkbox"/> |
| Advance in scientific research | <input checked="" type="checkbox"/> |
| Effective grant making | <input type="checkbox"/> |
| Improved service delivery | <input type="checkbox"/> |
| Increased customer satisfaction | <input type="checkbox"/> |
| Implementation of laws or regulatory requirements | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |

Outcome Comments

NA

What are the cost savings associated with this committee?

Checked if Applies

- | | |
|----------------------------|-------------------------------------|
| None | <input type="checkbox"/> |
| Unable to Determine | <input checked="" type="checkbox"/> |
| Under \$100,000 | <input type="checkbox"/> |
| \$100,000 - \$500,000 | <input type="checkbox"/> |
| \$500,001 - \$1,000,000 | <input type="checkbox"/> |
| \$1,000,001 - \$5,000,000 | <input type="checkbox"/> |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/> |
| Over \$10,000,000 | <input type="checkbox"/> |
| Cost Savings Other | <input type="checkbox"/> |

Cost Savings Comments

NA

What is the approximate Number of recommendations produced by this committee for the life of the committee?

61

Number of Recommendations Comments

Various recommendations on improving program focus areas and on overall strategy and communications. No new recommendations were officially provided in FY2018, since the Committee was not scheduled to complete its 2017 Annual Report until November 2018.

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

69%

% of Recommendations Fully Implemented Comments

The agency has generally implemented the recommendations of the HTAC that are within the scope and mission of the agency and which are consistent with the DOE Hydrogen and Fuel Cell Program's goals and objectives.

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

30%

% of Recommendations Partially Implemented Comments

Recommendations that are outside the scope of the agency are not implemented (e.g., a recommendation to extend the Federal tax credits for fuel cell electric vehicles). Some recommendations have only been partially implemented, due to limitations in funding or conflicts with other agency priorities.

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?

Yes ☒ No ☐ Not Applicable ☐

Agency Feedback Comments

Feedback is provided in letters from either the Secretary of Energy or the Assistant Secretary for Energy Efficiency and Renewable Energy. Additional feedback is provided at scheduled Committee meetings. A Biennial Report to Congress is also submitted summarizing the Agency's response to HTAC recommendations.

What other actions has the agency taken as a result of the committee's advice or recommendation?

Checked if Applies

Reorganized Priorities	<input type="checkbox"/>
Reallocated resources	<input type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

Action Comments

Not Applicable

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

NA

How is access provided to the information for the Committee's documentation?

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Access Comments

http://www.hydrogen.energy.gov/advisory_htac.html